

Title (en)

A process for preparing nicotinonitriles and intermediates used therein.

Title (de)

Verfahren zur Herstellung von Nicotinnitrilen und dabei verwendete Zwischenprodukte.

Title (fr)

Procédé pour la préparation de nicotinonitriles et produits intermédiaires utilisés dans ce procédé.

Publication

EP 0095152 A1 19831130 (EN)

Application

EP 83104984 A 19830519

Priority

- US 38106282 A 19820524
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- US 47196183 A 19830303

Abstract (en)

One aspect of the invention resides in the three step process for preparing cardiotonically active 1,2-dihydro-6-(lower-alkyl)-2-oxo-5-(pyridinyl)nicotinonitriles or 1,2-dihydro-6-(lower-alkyl)-2-oxo-5-(pyridinyl)nicotinamides which comprises reacting a pyridinylmethyl lower-alkyl ketone with tri-(lower-alkyl) orthoformate, acetic anhydride and acetic acid to produce 2-(lower-alkoxy)-1-(pyridinyl)ethenyl lower-alkyl ketone reacting the latter with cyanoacetamide or malonamide in the presence of a basic condensing agent and neutralizing the reaction mixture, where pyridinyl is 4- or 3-pyridinyl or 4- or 3-pyridinyl having one or two lower-alkyl substituents. Other aspects of the invention reside in the intermediate 2-(lower-alkoxy)-1-(pyridinyl)ethenyl lower-alkyl ketones, their salts and their two step conversion, as described above, to 1,2-dihydro-6-(lower-alkyl)-2-oxo-5-(pyridinyl)nicotinonitriles or corresponding nicotinamides.

IPC 1-7

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IPC 8 full level

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